

538,630

Rec'd PCT/PTO 10 JUN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number  
**WO 2004/055787 A1**

(51) International Patent Classification<sup>7</sup>: **G11B 7/00**,  
7/007, 20/10, 20/12

MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,  
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/IB2003/005276

(84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(22) International Filing Date:  
18 November 2003 (18.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
02080327.6 13 December 2002 (13.12.2002) EP

#### Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted  
a patent (Rule 4.17(ii)) for the following designations AE,  
AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,  
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,  
EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,  
IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,  
MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,  
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM,  
ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD,  
SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG,  
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT,  
LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ,  
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,  
TG)

(71) Applicant (*for all designated States except US*): KONIN-  
KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL];  
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): SPRUIT, Johannes,  
H., M. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eind-  
hoven (NL). RIJPERS, Johannes, C., N. [NL/NL]; c/o  
Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: DEGUELLE, Wilhelmus, H., G.; Philips Intel-  
lectual Property & Standards, Prof. Holstlaan 6, NL-5656  
AA Eindhoven (NL).

#### Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,  
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,

(54) Title: RECORD CARRIER COMPRISING MULTIPLE SETS OF RECORDING PARAMETERS

(57) Abstract: The invention relates to a record carrier which comprises multiple sets of recording parameters for a recording process. The recording parameters define a so-called write strategy for converting an information signal to be recorded into a pulsed radiation beam for recording the information on the record carrier. By providing multiple sets of recording parameters, each set related to a specific range of recording speeds, good quality recordings are obtained at various recording speeds.

WO 2004/055787 A1

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05276

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B7/00 G11B7/007 G11B20/10 G11B20/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, WPI Data, EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 835 462 A (MIMNAGH WINSLOW M) 10 November 1998 (1998-11-10) column 2, line 61 -column 6, line 5; figures	1-6
X	US 5 212 682 A (SAKURAI YUKIMITSU) 18 May 1993 (1993-05-18) the whole document	1-6
X	EP 0 798 711 A (TOKYO SHIBAURA ELECTRIC CO) 1 October 1997 (1997-10-01) claims 3,6	1,3-6
A		2

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

19 February 2004

Date of mailing of the international search report

27/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Poth, H

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International publication No

PCT 03/05276

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5835462	A	10-11-1998	BE 1009677 A3 AT 184416 T CA 2206297 A1 CN 1182497 A CZ 9701610 A3 DE 69604189 D1 DE 69604189 T2 EP 0852796 A1 ES 2138831 T3 GR 3031923 T3 HK 1012520 A1 WO 9713244 A1 ID 16343 A JP 11513521 T TW 397974 B	03-06-1997 15-09-1999 10-04-1997 20-05-1998 14-04-1999 14-10-1999 13-04-2000 15-07-1998 16-01-2000 31-03-2000 12-05-2000 10-04-1997 25-09-1997 16-11-1999 11-07-2000
US 5212682	A	18-05-1993	JP 3201266 A	03-09-1991
EP 0798711	A	01-10-1997	JP 9259576 A CN 1164732 A , B DE 69715710 D1 DE 69715710 T2 EP 0798711 A2 TW 403901 B US 5878020 A	03-10-1997 12-11-1997 31-10-2002 15-05-2003 01-10-1997 01-09-2000 02-03-1999